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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 06237179 A

(43) Date of publication of application: 23.08.94

(51) Int. Cl.
H03M 7/30
G06F 15/66
G10L 9/18
H04N 1/415
H04N 7/13

(21) Application number: 05260908

(22) Date of filing: 19.10.93

(30) Priority: 01.12.92 JP 04321976

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(54) DESIGN METHOD FOR VECTOR QUANTIZER
AND VECTOR QUANTIZER

(57) Abstract:

PURPOSE: To provide the method minimizing average distortion regardless of signal distribution in the design of a code book.

CONSTITUTION: A code word is 'copied' or 'lost' based on the 'principle of equal distortion'. For example, when each code word is selected at a closest vector, a distortion $d(x, y)$ is integrated (103), and when an input data number (t) reaches a number T (101), an adaptive degree is calculated (105) in response to an accumulated distortion $g_1 (= \sum d(x, y_c))$, a copy of the relevant code word is generated in terms of probability in response to the adaptive degree (106) and a new code word group is obtained by adding a random vector to each copy respectively (107) and the code book is revised by the code word group (108).

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